

What is claimed is:

1. An optical switch for changing over a running direction of a light passing through an optical waveguide between a first direction and a second direction by moving a switching member disposed on an optical path of an optical waveguide, wherein the switching member has a plurality of switching positions for selectively guiding each of lights of at least two different wavelengths into the first direction or second direction, respectively.
2. An optical switch according to claim 1, wherein the plurality of switching portions includes a first switching portion and a second switching portion, wherein the first switching portion is for guiding lights of first and second wavelengths into the first and second directions, respectively, and wherein the second switching portion is for guiding lights of the first and second wavelengths into the second and first directions.
3. An optical switch according to claim 2, wherein the plurality of switching portions further includes a third switching portion for guiding lights of the first and second wavelengths into one of the first and second directions.
4. An optical switch according to claim 1, wherein the switching member is configured to move within the groove intersecting with the optical waveguide.
5. An optical switch according to claim 4, wherein the groove is filled with liquid.

6. An optical switch according to claim 5, wherein the switching member is moved by moving the liquid in the groove.

7. An optical switch according to claim 6, wherein the liquid is moved in the liquid by a micro pump coupled to the groove.

8. An optical switch according to claim 1, wherein at least one of the plurality of switching portions comprises an interference filter.

9. An optical switch comprising:
a groove intersecting with an optical waveguide and filled with liquid;
a switching member movably provided in the groove; and
a micro pump coupled to the groove for transferring the liquid in the groove.

10. An optical switch according to claim 9, wherein the micro pump comprises a piezoelectric element.

11. An optical switch according to claim 9, wherein the micro pump has no valve therein.

12. An optical switch according to claim 9, wherein at least a part of the switching member has a refractive index different from that of the fluid.

13. An optical switch according to claim 12, wherein a refractive index of the optical path matches with one of those of the at least a part of the switching member and the fluid.

14. An optical switch according to claim 1, wherein the switching member comprises an interference filter.

15. An optical switch according to claim 1, wherein the switching member comprises a liquid crystal.